



7AH7

## REMOTE-CUTOFF PENTODE

### GENERAL DATA

#### Electrical:

Heater, for Unipotential Cathode:

Voltage. . . . . 6.3<sup>□</sup> . . . . . ac or dc volts  
Current. . . . . 0.15<sup>□□</sup> . . . . . amp

Direct Interelectrode Capacitances:<sup>○</sup>

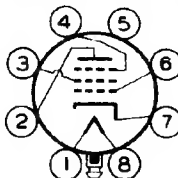
Grid No.1 to Plate . . . 0.005 max. . . . . μμf  
Input. . . . . 7 . . . . . μμf  
Output . . . . . 6.5 . . . . . μμf

<sup>○</sup> With external shield connected to cathode.

#### Mechanical:

Mounting Position. . . . . Any  
Maximum Overall Length . . . . . 2-25/32"  
Maximum Seated Length. . . . . 2-1/4"  
Maximum Diameter . . . . . 1-3/16"  
Bulb . . . . . T-9  
Base . . . . . Lock-in 8-Pin  
Basing Designation for BOTTOM VIEW . . . . . 8V

Pin 1-Heater  
Pin 2-Plate  
Pin 3-Grid No.2  
Pin 4-Grid No.3  
Pin 5-Internal  
Shield



Pin 6-Grid No.1  
Pin 7-Cathode  
Pin 8-Heater

Plug - Base  
Shell

### AMPLIFIER - Class A<sub>1</sub>

#### Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. . . . . 300 max. volts  
GRID-No.2 (SCREEN) VOLTAGE . . . . . 300 max. volts  
PLATE DISSIPATION. . . . . 2 max. watts  
GRID-No.2 DISSIPATION. . . . . 0.7 max. watt  
GRID-No.1 (CONTROL-GRID) VOLTAGE:  
Negative bias value. . . . . -1 min. volt  
PEAK HEATER-CATHODE VOLTAGE:  
Heater negative with respect to cathode 90 max. volts  
Heater positive with respect to cathode 90 max. volts

#### Typical Operation and Characteristics:

Plate Voltage. . . . . 250 volts  
Grid No.3 (Suppressor) . . . . . Connected to cathode at socket  
Internal Shield. . . . . Connected to cathode at socket  
Grid-No.2 Voltage. . . . . 250 volts  
Cathode-Bias Resistor #. . . . . 250 ohms  
Plate Resistance (Approx.) . . . . . 1 megohm  
Transconductance . . . . . 3300 μmhos  
Grid-No.1 Bias (Approx.) for  
transconductance of 35 μmhos . . . . . -20 volts

# Fixed bias not recommended.

□ Nominal voltage = 7.0 volts.

□□ Nominal current = 0.16 ampere.

FEB. 1, 1949

TUBE DEPARTMENT  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA

7AH7



7AH7

# REMOTE-CUTOFF PENTODE

Plate Current. . . . .	6.8	ma
Grid-No.2 Current. . . . .	1.9	ma

FEB. 1, 1949

**TUBE DEPARTMENT**  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA